

American Fruit Grower

WESTERN EDITION
DECEMBER • 1956



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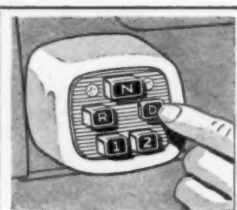
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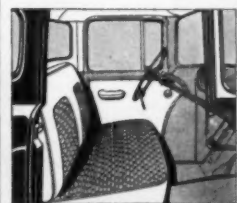
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FRUIT GROWER'S PICTURE REVIEW



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FREE FARM POWER ANALYSIS

Before you plan your next season's orchard program, check with your Caterpillar Dealer. He will help you make a plan to match your needs. See him today! Ask for free booklet, "Land Clearing with Cat-built Equipment," or write Dept. AMF126, Peoria, Ill.

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American Fruit Grower

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The Only National Fruit Publication

Vol. 76 DECEMBER, 1956 No. 12

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AMERICAN FRUIT GROWER

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E. G. K. MEISTER,
Publisher

RICHARD T. MEISTER, Editor

Editorial Staff

E. K. GOULD, Managing Editor

H. B. TUKEY ELDON S. SANTA

B. M. KUBIK

GEORGE M. ROSS, Art Director

J. S. BENDER, Production Manager

EDWARD L. MEISTER, Director of Advertising

District Advertising Offices

NEW YORK, W. J. Martin and Company, 550 Fifth Ave. Phone—Plaza 7-6454

NEW JERSEY, W. J. Martin and Company, 390 Terhune Ave., Paramus.

CHICAGO, Peck and Billingslea, Inc., 185 N. Wabash. Phone—Dearborn 2-0292

SAN FRANCISCO, McDonald-Thompson, 625 Market St. Phone—Yukon 6-0647

LOS ANGELES, McDonald-Thompson, 3727 West 6th St. Phone—Dunkirk 7-5391

SEATTLE, McDonald-Thompson, 1008 Western Ave. Phone—Elliot 3767

HOUSTON, McDonald-Thompson, 3217 Montrose Blvd. Phone—Jackson 9-7111

DENVER, McDonald-Thompson, 222 Colorado National Bank Bldg. Phone—Keystone 4-4669

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AMERICAN FRUIT GROWER

LETTERS TO THE EDITOR

Likes Stop-Drop Story

Dear Editor:

I want to especially compliment you on the "Stop-Drop" story by Jack Batjer in the September issue. This story tells the facts, and Jack knows them. This story ought to be a big help to thousands of readers.

Lafayette, Ind.

C. L. Burkholder

Off With Their Leaves!

Dear Editor:

As an apple grower, I sure wish the research men and chemists would come up with a substance which could be sprayed on the trees to take off the heaviest part of leaves a week or so before picking. Even a few leaves off the top would help. This would help to color the fruit and speed up picking as well as ease labor problems. I am assuming the plant physiologists would agree the trees don't need so much leaf surface at this time of year. It might even promote hardening.

Is there such a substance in sight?

Wellandport, Ont.

Lawrence Pogue

Reader Pogue has a fine idea which has been thought about and worked upon by many even though nothing really practical has yet evolved.—Ed.

Dwarf Pear Beauties

Dear Editor:

It occurs to me that you may find usable the enclosed snapshot. The pears are



Duchess, a dwarf tree which bore 34 pears the third year, some weighing nearly a pound.

The fruit is larger than and superior to the fruit from standard trees, particularly the Bartlett, and is exquisite, highly colored, and of luscious quality.

The trees were purchased from Kelly Bros. Nurseries, Inc., Dansville, N. Y. My test of dwarf trees was preparatory to a larger commercial planting in case the results proved satisfactory, which, of course, they have, refuting the statements of those who scoff at dwarfs. Of course, I realize a larger planting might require more vigilant control.

Trenton, N. J.

Herbert R. Alger

Advice on Pickers' Tickets

Dear Editor:

I saw in the Question Box an inquiry for pickers' tickets. I use tickets from Carr Publishing Co., Boyce, Va. Just a comment—tell growers to avoid either 6 or 9. Do not use both. I speak from experience.

Hilton, N. Y.

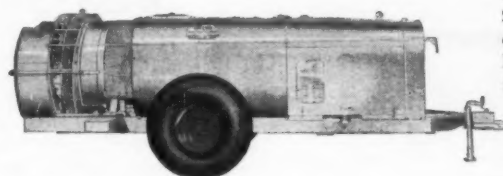
Ralph G. Palmer

New Myers



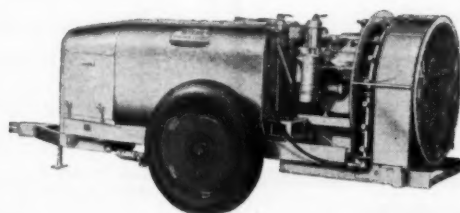
Concentrate Sprayer: 45,000 cubic feet of air per minute, 90 MPH. Left-hand, right-hand or two-way spraying. High-pressure, abrasive- and corrosive-resistant, 13 or 20 GPM piston pump. Easy-to-reach positive controls.

Orchard Sprayers



Semi-Concentrate and Dilute Sprayer: 45,000 cubic feet of air per minute, 90 MPH. High-head, high-capacity, 120 GPM centrifugal pump. Right, left, or two-side application. Remote control or spray discharge.

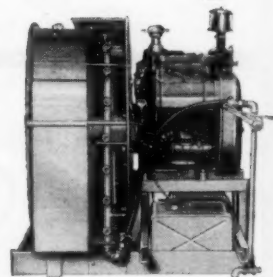
Deliver More Air



All-Purpose Air Sprayer: 30,000 cubic feet of air per minute, 90 MPH. High-pressure, corrosive- and abrasive-resistant, 20 GPM piston pump. 36", seven-blade, high-strength cast aluminum axial-flow fan moves more air with less power. Right, left and two-way spraying.

For Best Coverage

Blower Attachment: 30,000 cubic feet of air per minute, 90 MPH. 36", seven-blade, axial-flow aluminum fan. This unit converts any high-pressure sprayer to a one-man air-blast rig. One- or two-side delivery.



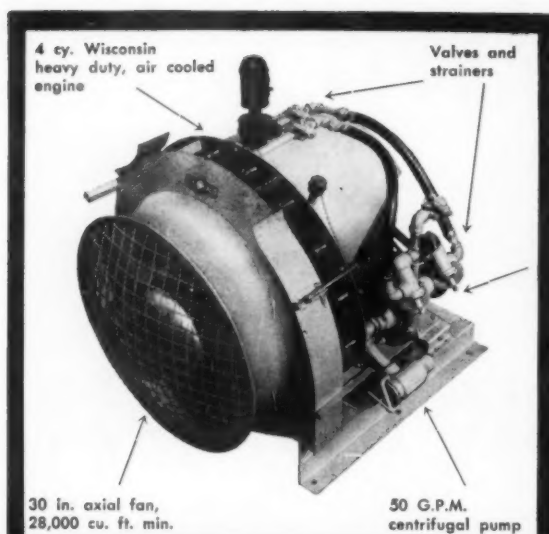
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Save hundreds of dollars on your new sprayer this spring—just attach the Bes-Spray 'Power Package' to any of the following*:

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Only \$1,695 f.o.b. Oakland—slightly higher from dealer and warehouse stocks in principal fruit growing areas of Midwest and East.

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Some territories still available to dealers

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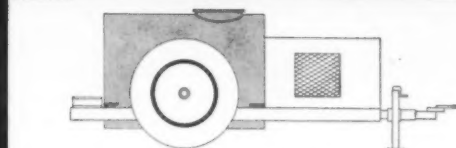
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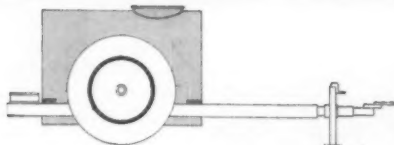
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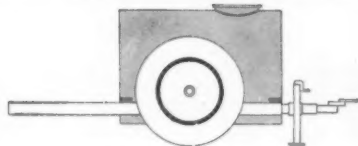
*Suggested design for building your own 400-gallon spray unit—at no extra cost. ☐



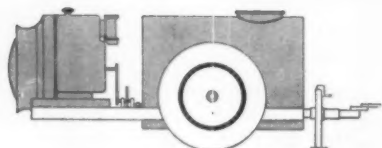
Your old sprayer — with worn-out engine and pump, or power take-off.



Remove worn-out engine and pump.



Relocate tank for better balance.



Mount Bes-Spray 'Power Package'
... paint any color you wish!

American
Fruit Grower

• Fruit for Health •



A Sunday afternoon crowd at Welday's Red Ridge Orchard located on a secondary road near Smithfield, Ohio. Above left—41-year-old Romes in the apple orchard.

I'M PUTTING *All My Eggs* IN ONE BASKET!

**A prominent Ohio apple grower presents
his arguments against diversified farming**

By **WHEELER J. WELDAY**

DURING the height of the apple harvest in early October, I saw an orchard man sowing wheat in the morning, picking apples in the afternoon, and hunting up his cattle at 2 o'clock the next morning after delivering the apples 125 miles away.

This fruit grower-neighbor shares the "don't-put-all-your-eggs-in-one basket" opinion of many horticultural authorities. He believes in diversification.

As the operator of a 125-acre apple orchard at Smithfield, Ohio, I am a specialist in the fruit-growing game. All my eggs are in one basket, but I'm not worried. I've got a firm grip on the handle—because I don't have to sow wheat or chase cows or worry about anything except producing and marketing apples.

In looking at the question of diversification, three things should be kept in mind. These are 1) size of the operating unit; 2) location

in respect to sales potential; and 3) aptitude of the grower.

Size—More thought should be given to developing a competitive unit. It should be large enough for volume to justify modern laborsaving equipment, but not so large as to pass the point of diminishing returns. I feel that 100 to 125 acres of specialized apples, well-located, can be a most efficient unit, including enough young stock coming on to make the desired "rotating unit."

Location—What is the potential local market? The grower on the main highway, planning for continuous sales of various fruits throughout the season, is justified in diversifying in fruits.

Fifty acres of apples with a well-rounded "other fruits" program could mean a much larger enterprise than 125 acres of a single fruit. Diversification of this type can be profitable—providing the size is kept within bounds.

Aptitude—Fruit growing demands business ability, foresight, fortitude, and implicit regard for timing. If

apples sell for as low as 75 cents a bushel, the game is to produce at 65 cents; a cost of 85 cents is fatal.

Who is in the better position to keep costs low for a given standard of quality? Surely not the tired farmer with grains, trucking, poultry, dairy, and a host of other irons in the fire who arises a little earlier and runs a little faster to care for the orchard himself in order to *save costs*. Watch that farmer and see if he has aptitude enough to spray for codling moth and let the corn planting go.

The apple specialist may have it easier as far as ease of operation is concerned; gears mesh better. A failure may mean more impact on the nerves—even disaster—but that is largely a question of financing.

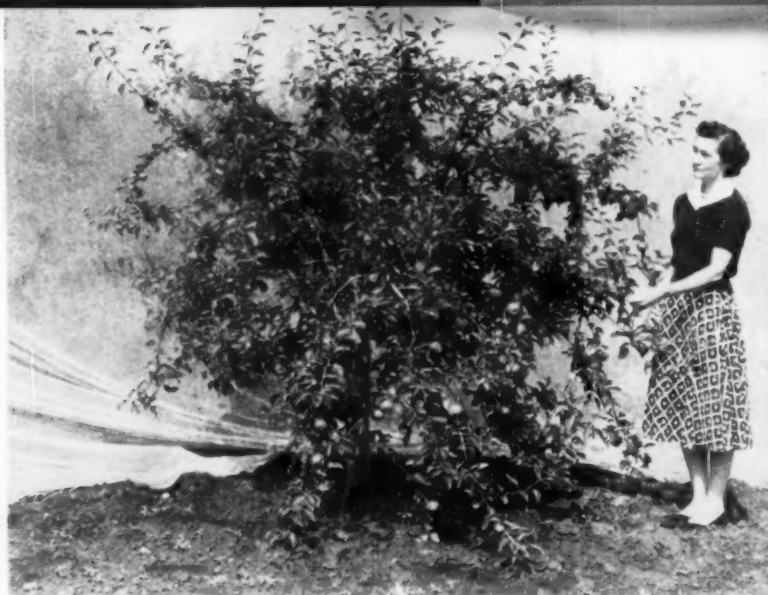
The harvesting of a specialized apple crop is a full-sized job in itself. There are preharvest sprays to put on, poly bags to fill and market, rye to sow for small tree cover, and local sales to conduct.

Apples either pay or they don't. If they pay, it is by guts and efficiency; if not, the answer isn't in taking on those extra lines that lead inevitably toward a run-down orchardist as well as a run-down orchard.

THE END.



Authenticated News photos
Above — 32-year-old Worcester Pearmain on Malling IX rootstock. Right — 8-year-old Jonathan on MM 106, one of the new series of rootstocks resistant to woolly aphid. This tree produced crops from 1948 to 1953 totaling 172 pounds.



DWARF APPLE ORCHARDS *in England*

A visit to England's famous dwarf apple orchards nets some practical ideas for American growers

By C. L. BURKHOLDER
Purdue University

HEAVY early yields, lower management costs, and an increase of 28 to 32 trees per acre are possible when apple growers use semi-dwarfing rootstocks. These factors present a picture that is naturally attractive and may eventually change the entire planting program in young apple orchards in North America.

English research workers have made an intensive study of apple rootstocks. As early as 1912 Dr. R. G. Hatton of the East Malling Research Station began a study of the various rootstocks being used in European nurseries. Eventually he selected 17 of the most promising types which he then propagated by layers and topworked to a number of English apple varieties. This series of rootstocks was given Roman numerals M I to M XVII. There proved to be a wide range of dwarfing among the 17 selections. For instance, M IX produced very dwarf trees, M II semi-dwarf, and M XVI a nearly standard-size tree.

All of the original Malling rootstocks proved to be susceptible to woolly aphids, a serious production

problem at that time. Therefore, in 1928 a rootstock breeding project was initiated by Dr. Crane at the Merton Research Station and Dr. Tydeman of the East Malling Station. Most of the resulting seedlings came from crosses between Northern Spy and the original 17 Malling selections.

Out of these extensive early tests for woolly aphid resistance, 15 new rootstocks were selected, numbered 101 to 115, and given the prefix MM. These were in turn topworked to standard English varieties and are now undergoing extensive field testing. Again a wide range of dwarfing action resulted.

Five of the most promising of the MM series are described by Dr. A. P.

Preston in "Five New Apple Rootstocks." (East Malling Research Station Report, 1953, East Malling, Kent, England.)

It is estimated that 80 per cent of all the commercial orchards in England under 25 years of age are on M II, a semi-dwarfing understock. At big Norbury orchard over 300 acres of apples are grown, of which at least 90 per cent are on M II. Trees are tied to stakes during the first eight or nine years, a standard practice in England with dwarfing or semi-dwarfing understocks.

Another "dwarf" orchard in southeastern England is operated by Tom Neame and his two sons. In addition
(Continued on page 19)



Ten-year-old 150-acre dwarf apple orchard of Tom Neame and sons in England. Trees are on Malling II rootstocks planted 25½ x 25½ feet, or 67 trees to the acre. Rows are a half-mile long.

AMERICAN FRUIT GROWER



Fruit grower Paul Kimball, of Worcester County, Mass., (left) trims his apple trees the easy way with a Mall electric chain saw and a portable war surplus generator mounted to the rear of his tractor. The saw is equipped with a trigger switch for complete safety. When Kimball loosens his grip on the saw, it stops, enabling him to climb ladders and maneuver among

branches. It weighs 14 pounds, costs about \$125. Kimball tests saw (above) before climbing ladder. Gasoline generator weighing 150 pounds is mounted on home-made stand at rear of tractor between drawbar and axle. When not in use, generator slides off for easy storage. Note 100 feet of cable wound on platform to enable working several trees without moving tractor.

Speed Up Your PRUNING

These growers get their pruning job done quickly and easily by using time- and labor-saving methods



Everett Eaton, foreman at Applecrest Orchards, Rockingham County, N. H., doesn't waste time getting pruning equipment together. His home-made pruning trailer (left) is complete with compressor (powered from tractor power take-off), three power pruners with hoses coiled on a spindle, and other necessary pruning tools. Tools are protected in the big wooden box on the trailer. Tacked on the inside lid of the box (above) is a drawing (protected by a plastic covering) of a properly pruned apple tree so quick instructions can be given inexperienced workers on how to prune.—Chas. L. Stratton.



Converting tree prunings to chips in the orchard saves labor, and the chips condition the soil. Chip mulches last longer than other kinds of mulches and don't favor insects and rodents, reports the USDA. Chipper shown above is made by Fitchburg Engineering Corp., Fitchburg, Mass.



Photos above and at right courtesy Soil Conservation Service, USDA.

Wood chip mulch on young raspberry plantation on William Wallerton farm, Rhinebeck, N. H. USDA Soil Conservation Service Leaflet No. 323, Wood Chips for the Land, is available for 5 cents from Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.



Block of 12-year-old McIntosh, Cortland, and Delicious apple trees in R. H. and R. M. Lajoie orchard, Acton, Maine, mulched with four bales of wood shavings per tree. Fruit growers find that wood mulches increase yields and size of fruit. Injury to "drops" is also reduced.

State NEWS

- Michigan Growers Look to 1957 with Enthusiasm
- New Jersey Reports Heavy Drop of Apples

Hopes High for 1957

MICHIGAN—With the production season of 1956 completed, growers are looking to 1957 with a great deal of expectation. The apple crop, estimated between 10 and 11 million bushels, was very favorable. Color and quality were excellent. However, the dry weather in the central and southern counties of Michigan reduced fruit size on trees with a heavy crop. Many growers who felt they had removed all the fruit of certain varieties with a thinning spray of NAA were pleased to observe good crops on these trees in spite of the early observations of no fruit.

Three new controlled atmosphere storages were put into operation this fall on the farms of Erwin Klenk and William Schaeffer in Sparta and Vernon Bull in Casnovia. More storages of this type are being planned by growers for construction in 1957.

Peach growers are particularly interested in the new red-skinned Haven varieties of peaches, the Sunhaven and Richhaven, recently introduced by Stanley Johnston, superintendent of the South Haven Experiment Station. Also, the longer-established variety, Redskin, is creating a great deal of interest as this variety brought a premium price this year on the Benton Harbor market over the yellow and blushed varieties. The Sunhaven and Richhaven varieties released in 1955 are not yet in commercial production.—Arthur E. Mitchell, Asst. Sec'y, East Lansing.

Cross Retires; White to Take Over

OKLAHOMA—After 38 years of service at Oklahoma A & M, Dr. Frank Cross retired recently as head of the horticulture department.



Dr. White

Dr. Cross is a pioneer in a nationwide research program on uneven ripening in grapes, in addition to being a leader in the teaching field. He has served as secretary-treasurer of the Federated Pecan Growers Association.

Dr. David G. White, Penn State horticulturist with a distinguished record in both the United States and abroad, will head the Oklahoma horticulture department after the first of the year. He is a native of Parsons, Kans.—Ab Lemmert.

Heavy Apple Drop

NEW JERSEY—Apple drop was heavy during the last week of October, resembling 1942 in this respect. Warm temperatures following the mid-October freeze resulted in some leaf drop and subsequent fruit drop.

Magnesium deficiency symptoms in apple orchards were more prevalent than in previous years, particularly on Rome.—Ernest G. Christ, Sec'y, New Brunswick.

IKE LIKES APPLES!

Could it be that apples affected the election? Mrs. Eisenhower gave the President a box of Golden Delicious for his birthday. (We have it on good evidence that the apples were grown in Maryland.) Perhaps they had some effect, for there were some mighty fine speeches made after these birthday apples were presented.—A. F. Vierheller, Sec'y, Maryland State Horticultural Society, College Park.

Big Crop

INDIANA—Growers have just finished picking one of the largest crops in recent history. Entire crops were harvested without danger of freeze.

Displays of apples in polyethylene bags were exhibited at the Indiana State Fair this year for the first time.

In keeping with the newer marketing trends, the fair opened two sections for apple growers this year. A first place prize of \$10 was offered for the best entry of any red variety displayed in three 4-pound film bags. Similar money was offered for the best yellow variety displayed in the same manner. In addition, the fair offered a sweepstakes prize of \$5.

Winner of the sweepstakes was A. Calglazier and Sons, growers from Salem. Their apples were the smoothest, best

formed Golden Delicious the writer has ever seen.

D. B. Colyer, of Mobleville and Frankport, fruit grower and farmer, passed away suddenly while visiting his son in California.—George A. Adrian, Sec'y, Indianapolis.

High Color

CONNECTICUT—In spite of lack of water, a nice crop of apples with high color and quality has been harvested.

Robert Josephy, Blue Jay Orchards, Bethel, is a local grower who deserves a pat on the back. He runs his up-to-date cider press at top capacity in connection with his roadside stand. Quality products in clean, attractive surroundings pay off, and Bob is a perfect example of the success of this principle.

George S. Butler, Cromwell, last of the honorary life members, and a charter member of the Connecticut Pomological Society, died recently. He was the first secretary of the organization, in 1891.

The Connecticut Pomological Society lost another old member with the recent death of M. W. Force, East Haddam.—Sherman P. Hollister, Sec'y, Storrs.

(Continued on page 12)

FRUIT PEST HANDBOOK

(FIFTY-FIFTH OF A SERIES)

PEAR OR CHERRY SLUG

THE pear or cherry slug is a common pest of pears and cherries and an occasional pest of plums throughout the United States. Injury is due to skeletonizing of the leaves by the feeding of the larvae on the upper surface. Only a network of veins and the lower epidermis remain on badly damaged leaves.

The insect overwinters as a pupa in an earthen cell in the soil. The adults—small, glossy black, four-winged flies—appear late in the spring. The eggs are laid soon after in the leaf tissue where they hatch in one to two weeks.

The larvae are enlarged in front and taper behind, are slimy and sluglike in appearance, are yellow to orange when first molted but soon appear olive green to almost black in color due to the slime, and are about one-half inch long when full grown.

The slugs feed and complete their growth in about a month, drop to the ground, and enter the soil to complete development into adults. A second brood appears commonly during late July and August, feeds until full grown, drops to the ground, and enters the soil for the winter.

Control. The regular spray schedule ordinarily controls the pear or cherry slug. If it does not, or a regular spray program is not followed, spray the trees with lead arsenate at 2 pounds per 100 gallons of water when the slugs are first noticed on the leaves. If it is closer than 30 days to harvest when you notice the slugs, use a rotenone spray containing 2 pounds of a 4% or 5% rotenone wettable powder per 100 gallons or dust the trees with a 0.75% rotenone dust. A second application may be



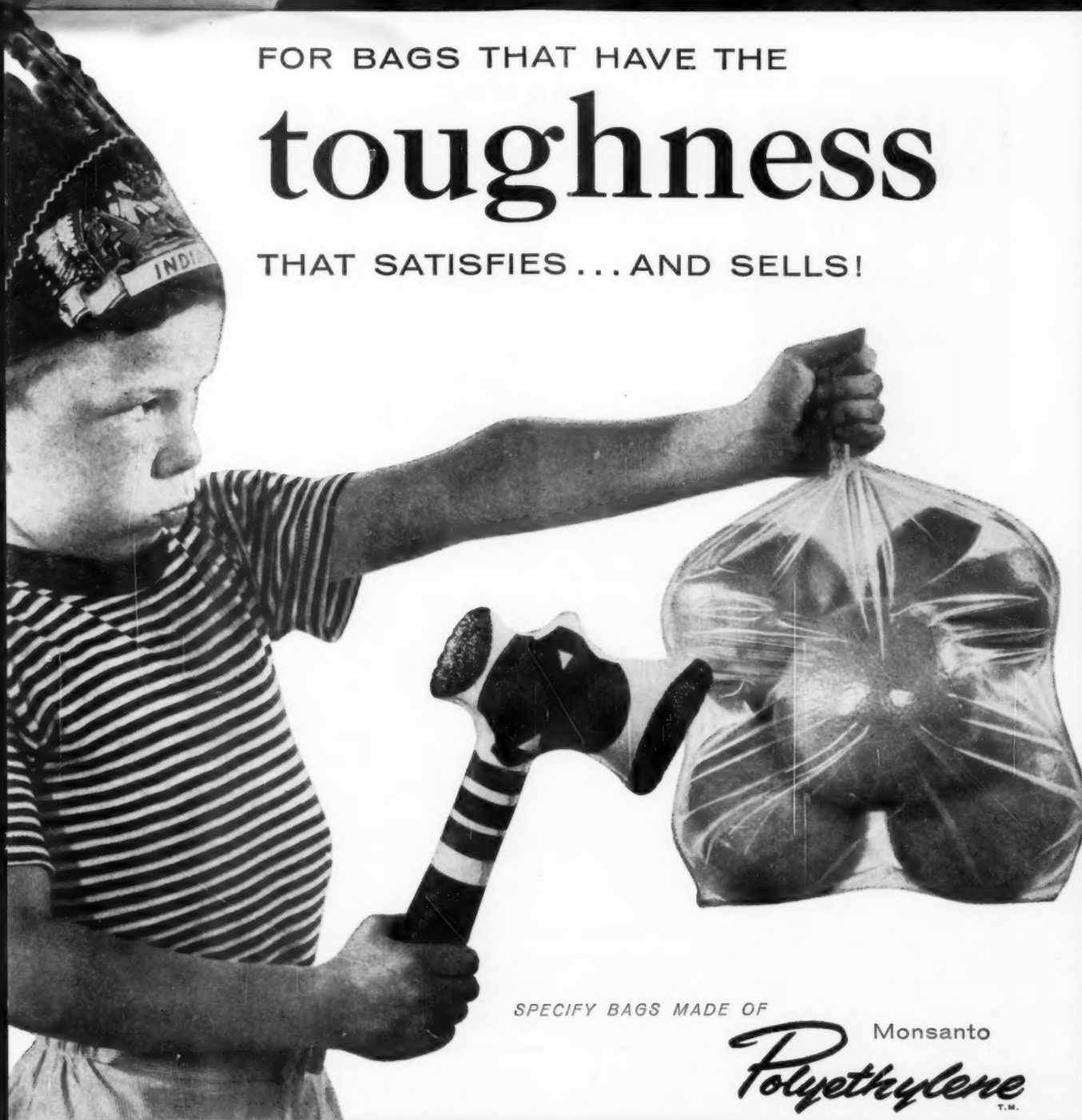
Larva of pear slug feeding on pear leaf. Photograph courtesy USDA.

needed when the second brood appears.—Howard Baker, USDA.

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THAT SATISFIES...AND SELLS!



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Polyethylene T.M.

Polyethylene film bags are the people's choice! And the deciding factor continues to be the wonderfully tear-resistant toughness of the film.

You will get the film toughness that satisfies shoppers, packers, and store managers, when the bags you buy are made with film formulated from the special tough resins developed by Monsanto research for packaging applications.

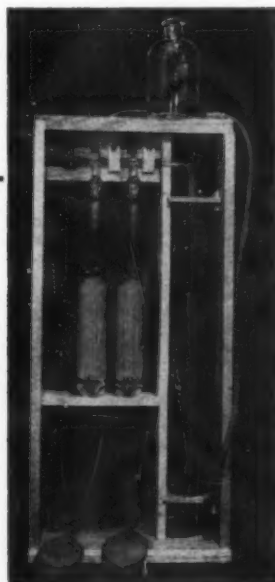
When you next order polyethylene film bags, specify "Monsanto grade toughness."

We'll be glad to give you the names of bag manufacturers who can supply your needs. Write to Monsanto Chemical Company, Plastics Division, Room 1372, Springfield 2, Massachusetts.

DECEMBER, 1956



► **LEAK-PROOF**
► **ACCURATE**
► **EASY TO USE**



"SGA" ORSAT GAS ANALYZER

APPLES cannot remain fresh and delicious tasting during the entire storage period unless the atmosphere is properly controlled. That's why it is so important to use the right kind of apparatus for analyzing carbon dioxide and oxygen in controlled atmosphere storage.

The "SGA" Orsat Gas Analyzer is recommended by Dr. R. M. Smock of Cornell University in his *Handbook For Controlled Atmosphere Rooms* because "it is more likely to be leak-proof." The "Pyrex" brand glass apparatus is housed in a portable wooden carrying case for accurate, on-the-spot determinations.

Write today for complete information!

J-1958 Orsat Apparatus complete, as illustrated, including rubber bulb for pressure or vacuum. Price.....\$75.00



**SCIENTIFIC GLASS
APPARATUS CO., INC.**

BLOOMFIELD, N. J.

STATE NEWS

(Continued from page 10)

Quality Not Quantity

IOWA—Apple production was below average but some fine quality fruit was produced. Prices averaged slightly higher than last year. Practically all good quality apples have been sold.

Much needed rain has been falling (Oct. 6), and there have been no early freezing temperatures.—R. Glenn Raines, Sec'y, Des Moines.

SERVES INDIANA AND ILLINOIS

Now servicing the states of Indiana and Illinois for Michigan Orchard Supply Company, South Haven, is Roger Van Leeuwen, a graduate of Michigan State University. He will represent the complete MOS line of fruit and vegetable graders, AUTO-LOCK irrigation equipment, U-T lift trucks, Friend sprayers, Rose Treeshoes, prepackaging equipment, and other specialty orchard and row-crop equipment.

Practical farming experience was gained by Van Leeuwen during several years of managing and operating the Van Leeuwen family farm.



Annual Meeting Plans

KANSAS—W. D. Armstrong, University of Kentucky, will be guest speaker at the annual meeting of Kansas State Horticultural Society, December 13-14, at Manhattan. He will discuss growing strawberries and peaches. The panel on irrigation promises to be a highlight of the program, and the 1956 investigations at the experiment station will be another top feature. The attorney for the State Board of Agriculture will discuss the legal aspects of the use of 2,4-D.

James Sharpe, of Council Grove, veteran fruit grower and longtime member of the Kansas State Horticultural Society, and well known throughout the state, passed away recently.—William G. Amstein, Sec'y, Manhattan.

FUNGICIDE RESULTS PUBLISHED

"Results of 1955 Fungicide Tests," reprinted from a series of articles appearing in *Agricultural Chemicals*, may be purchased for \$1.00 per bound copy from Dr. A. G. Newhall, Dept. of Plant Pathology, College of Agriculture, Cornell University, Ithaca, N.Y. The publication of these results is under the sponsorship of the American Phytopathological Society.

Recognition

WISCONSIN—Two fruit growers were honored for outstanding services at the 88th annual convention of Wisconsin State Horticultural Society, held at Fond du Lac.

R. L. Marken, Kenosha, a University of Wisconsin graduate in horticulture, a past president and director of the Wisconsin State Horticultural Society, and an outstanding leader in orcharding was recognized "for devotion to the successful culture of fruit and substantial contributions to advancing the art of fruit growing and the welfare of horticultural organizations." Mr. Marken is a partner in the Thompson and Marken Orchards at Kenosha.

Arnold F. Nieman, Cedarburg, a past president of the horticultural society, past secretary of the Wisconsin Apple Institute, an officer of the Ozaukee County Fruit Growers Association, and prominent civic and community worker, was recognized

(Continued on page 28)

CALENDAR OF COMING MEETINGS & EXHIBITS

Dec. 3-5—New Jersey State Horticultural Society annual meeting, Atlantic City.—Ernest G. Christ, Sec'y, New Brunswick.

Dec. 3-5—Kentucky State Horticultural Society 100th anniversary meeting, with American Pomological Society co-operating, Brown Hotel, Louisville.—W. W. Magill, Sec'y, U. of Kentucky, Lexington.

Dec. 4-5—Oklahoma Pecan Growers Association annual show and convention, Ardmore.—E. L. Whitehead, Sec'y-Treas., Stillwater.

Dec. 4-6—Michigan State Horticultural Society annual meeting, Civic Auditorium, Grand Rapids.—A. E. Mitchell, Asst. Sec'y, Michigan State U., East Lansing.

Dec. 6-7—Tennessee State Horticultural Society 51st annual convention, Andrew Jackson Hotel, Nashville.—A. N. Pratt, Sec'y, 403 State Office Bldg., Nashville.

Dec. 6-7—Oregon State Horticultural Society 71st annual meeting, Oregon State College, Corvallis.—C. O. Rawlings, Sec'y, Corvallis.

Dec. 7—Tennessee Pesticide Institute organization meeting, Andrew Jackson Hotel, Nashville.—A. N. Pratt, 403 State Office Bldg., Nashville.

Dec. 7-8—Idaho State Horticultural Society 62nd annual meeting, Hotel Boise, Boise.—Anton Horn, Sec'y-Treas., Boise.

Dec. 10-12—Washington State Horticultural Association 52nd annual meeting, Yakima.—John C. Snyder, Sec'y, Pullman.

Dec. 11-12—Connecticut Pomological Society 66th annual meeting, Hotel Bond, Hartford.—Sherman P. Hollister, Sec'y, Storrs.

Dec. 11-12—Peninsula Horticultural Society annual meeting, Capitol Grange Hall, Dover, Del.—Robert F. Stevens, Sec'y, Newark.

Dec. 13-14—Kansas State Horticultural Society annual meeting, Manhattan.—W. G. Amstein, Sec'y, Manhattan.

Dec. 14-15—Western Colorado Horticultural Society annual meeting, Mesa College, Grand Junction.—Raleigh B. Flanders, Sec'y, Box 478, Grand Junction.

Dec. 14-15—Utah State Horticultural Society annual convention, Hotel Utah, Salt Lake City.—Anson Call, Sec'y, Logan.

Jan. 3-4, 1957—Maryland State Horticultural Society annual winter meeting, Hotel Alexander, Hagerstown.—A. F. Vierheller, Sec'y, College Park.

Jan. 3-4—Missouri State Horticultural Society 99th annual meeting, Daniel Boone Hotel, Columbia.—W. R. Martin, Jr., Sec'y, U. of Missouri, Columbia.

Jan. 8-9—North Carolina State Apple Growers Association, annual meeting, Hendersonville.—Melvin H. Kolbe, U. of North Carolina, Raleigh.

Jan. 8-10—Massachusetts Fruit Growers' Association annual meeting, Worcester.—A. P. French, Sec'y, Amherst.

Jan. 10-12—Northeastern Weed Control Conference, 11th annual meeting, Sheraton-McAlpin Hotel, New York City.—E. M. Rahn, Chairman, Public Relations Committee, Dept. of Hort., Newark, Del.

Jan. 14-16—Virginia State Horticultural Society 61st annual meeting.—John Watson, Sec'y, P. O. Box 718, Staunton.

Jan. 17-18—Fruit and vegetable growers short course on marketing, soil fertility, and insect control, New Mexico A & M College, State College.—T. E. Raynor, 1801 Bellamah Dr., Las Cruces.

Jan. 21-26—New Jersey Farmers Week, Trenton.—Fred W. Jackson, Dir., Div. of Information, Dept. of Agriculture, Trenton 25.

Jan. 22-24—Indiana Horticultural Society 96th annual meeting, Severn Hotel, Indianapolis.—George A. Adrian, RR 4, Box 54-M, Indianapolis.

New York State Horticultural Society winter meetings: Jan. 23-25—Rochester; Jan. 30-Feb. 1—Kingston.—D. M. Dalrymple, Sec'y, Lockport.

Jan. 28-30—Pennsylvania State Horticultural Association annual meeting, Yorktowne Hotel, York.—John U. Ruef, Sec'y, University Park.

Jan. 28-31—United Fresh Fruit & Vegetable Association, Benjamin Franklin Hotel, Philadelphia.—Association headquarters: 777 14th St., N. W., Washington, D.C.

Feb. 6-8—Ohio State Horticultural Society annual meeting, Netherland-Hilton Hotel, Cincinnati.—C. W. Ellenwood, Sec'y, Wooster.

AMERICAN FRUIT GROWER



A. P. French, secretary of the Massachusetts Fruit Growers' Association, delivers the Approved Farm Stand sign to C. A. Dowse, Jr., of Sherborn, whose stand was first one approved.

APPROVED FARM STANDS

Massachusetts growers begin program to certify roadside markets

THE Massachusetts Fruit Growers' Association has initiated an "Approved Farm Stand" program aimed at increasing consumer confidence in local-grown fruit and other produce sold at farm stands.

Growers whose stands meet the standards of the Code of Ethics are given the right to display the "Approved Farm Stand" sign. It is 18 x 24 inches, metal, and printed on both sides with white background and three colors—green lettering, red apples, and wood-toned basket.

Several inspections are made during the season to make sure that the operator is maintaining code standards.—A. P. French, U. of Mass.

CODE OF ETHICS FOR APPROVED FARM STANDS

To all customers:

The undersigned has agreed to operate this roadside stand or farm sales room in accordance with the following Code of Ethics:

1. To maintain the stand, stand surroundings, and signs to present a neat and attractive appearance.
2. To feature local items, with at least 60% of items sold to be produced by stand operator.
3. To display only products in good, firm, usable condition.
4. To use only clean containers.
5. To use a grade mark on all products whenever official grades are available for the product, and to have the product under a grade mark qualify under the grade indicated.
6. To pack all containers with at least the weight or volume common for the package, and to have the face of each package represent the contents of the package.
7. To have the name and address of the operator on or in each container.
8. To have items on display plainly priced, with neat, readable signs.
9. To state the variety and grade when advertising price in newspapers or on the radio whenever official grades are available.
10. To treat all customers with courtesy and consideration favorable to the development of a good reputation for the Approved Farm Stand sign.
11. To display the APPROVED FARM STAND CODE OF ETHICS in a prominent place in the stand at all times.

DECEMBER, 1956

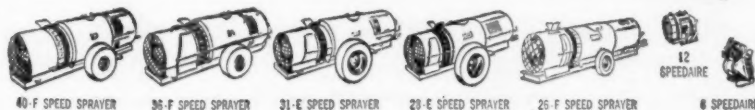
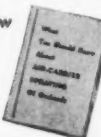


with a 1957 *John BEAN* Speed Sprayer

INCREASED CAPACITIES — For 1957, capacities have been increased in John Bean Speed Sprayers to assure you greater "rate of work" performance than ever before. This means greater speed and economy in doing the effective spraying job you need in your particular orchard. You get the deepest, most uniform penetration possible, using either concentrate or dilute applications. The exclusive John Bean air handling design permits you to gain all the advantages of high volume, low velocity air flow . . . controlled to fit your trees, under your specific spraying conditions.

A COMPLETE LINE — From the recognized leader of all orchard sprayers, the Model 40F Speed Sprayer, through the brand new Model 26F shown above, to the rugged Speedaire attachments, this 1957 John Bean line offers you the most complete selection in the field. You're sure to find a John Bean Orchard Sprayer suited exactly to your spraying requirements. See your John Bean Dealer now for a demonstration in your own grove or orchard.

"What You Should Know About AIR-CARRIER SPRAYING OF ORCHARDS" — Write today for your illustrated copy.



THE COMPLETE ORCHARD SPRAYER LINE



John BEAN

LANSING 4, MICHIGAN
SAN JOSE, CALIFORNIA

Division of Food Machinery and Chemical Corporation

Advanced WD-45 design means **MORE EFFICIENT ORCHARD POWER**



Here is tractor and implement engineering that offers you a new combination of power and maneuverability . . . economy and convenience . . . for many orchard operations, as well as for general farm work.

You'll be surprised at the many operating advantages provided by the WD-45 Tractor and the great new Allis-Chalmers implements. Your choice of dynamic Allis-Chalmers gasoline, LP gas or diesel engines, in conjunction with the automatic TRACTION BOOSTER system, works with amazing efficiency — cutting operating costs and getting more work done faster. Power steering is optional.

The 4-plow WD-45 Tractor will make money for you on every job it tackles. It's the new measure for efficient power . . . on more farms and ranches every day.

It's easy to own a WD-45. See your Allis-Chalmers dealer today!

ALLIS-CHALMERS, FARM EQUIPMENT DIVISION, MILWAUKEE 1, WISCONSIN

ALLIS-CHALMERS

TRACTION BOOSTER is an Allis-Chalmers trademark.



Two-level pruning platform built by Phil Johnson, Mooresville, Ind., is mounted over tractor. A 20 cubic foot compressor works off power take-off which operates four pneumatic pruners.

STRONGER WALKBOARDS

Here are ideas on constructing walkboards for pruning platforms

MANY growers report that the walkboards, or slip planks, of their pruning platforms are too "springy." Yet if they try to use a more rigid material such as metal or heavy planks, the walkboards are too heavy to be handled manually. What is needed, says fruit grower Mark Byers, of Vincennes, Ind., is a lightweight, yet rigid walkboard.

California growers have had the same problem with walkboards. R. R. Parks, extension agricultural engineer at the University of California, says, "Their stiffness is inadequate even when you try to use only half their length protruding from the platform."

Parks suggests using West Coast douglas fir for walkboards because it stands up very well by comparison with other woods. Spruce is also good, he says.

Straight grain spruce is used by Washington growers, says Archie Van Doren, superintendent of the



Hoist for pruning built by grower Ken Jameson, Malott, Wash., is mounted to front of his jeep.

AMERICAN FRUIT GROWER

Tree Fruit Experiment Station, Wenatchee. Where this wood is unavailable, he suggests a painter's ladder board which is obtainable in aluminum rigid trussed construction in a fairly thin, plank-like walk.

He also suggests, as a possibility, marine glued plywood, laminated and bolted. For safety, the boards should have carborundum or garnet paper glued on the surface, similar to that used on airplane step-plates.

At Cornell University, reports Everett Markwardt, extension agricultural engineer, the best material for walkboards has proved to be five 2 x 4's placed on edge and separated by 1-inch blocks.

"Turning the 2 x 4's on edge gives a stronger, more rigid platform than a heavy plank," says Markwardt. "One also has quite good footing

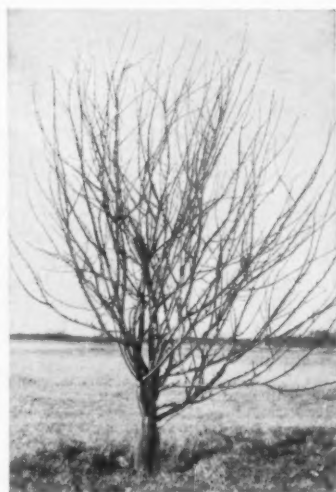


Photo by John Staby

A PRUNING PROBLEM

Does the sight of this Cortland apple tree make you hanker for your clippers? If so, reach for a pencil instead. Trace over the branches you'd leave on the tree if you were the pruner. Then compare your job with that done by the man who actually pruned this tree at Pomona Fruit Farm, Appleton, N.Y. "After" picture on page 28.

because of the space between the boards."

The boards can be 10 feet long if made from good, clear material free from knots. If 11- or 12-foot walkboards are desired, six 2 x 4's of the best-grade wood should be used. Although hemlock *might* hold, West Coast douglas fir is preferable.

Plans for a pruning platform with walkboards such as this are contained in Agricultural Engineering Mimeo #845, available from the Extension Service, Cornell University, Roberts Hall, Ithaca, N.Y. This mimeo also discusses the effect of power pruners and pruning platforms on the cost of pruning apple trees in New York. THE END.

DECEMBER, 1956



Brillion's armored Cyclone of Steel shreds finer, first time over

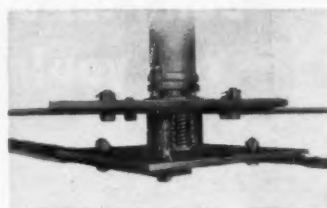
No pins to shear, no belts to slip

Put the new Brillion Cut-All Shredder to work in your orchards—you'll find it ideal for any shredding job. Chews up even heaviest prunings... shreds finer, first time over. And it's just as handy for clipping grass too.

Two sets of heavy-duty double blades, enclosed in $\frac{3}{16}$ " steel plate, easily shred prunings up to 3 inches in diameter. Exclusive friction slip-clutches safely harness full tractor PTO power. No belts to slip, no pins to break.

The offset model with swinging drawbar is tops for any type of orchard shredding. 1. Use in direct pull position for shredding between rows. 2. Or offset the hitch and ride free from branches as you clip close to trees.

The Brillion shredder is available as the offset model with swinging drawbar, the Cut-All with straight pull type hitch, or the pick-up model shown above. See your Brillion dealer for complete information or mail the coupon below.



AS EASY ON YOUR TRACTOR AS A PTO MOWER

Exclusive double slip-clutches above and below each set of blades cushion sudden jolts of tough shredding jobs. When obstruction stops bottom blades, top set keeps running. Gives self-cleaning action.

Brillion
CUT-ALL
SHREDDERS

IF BRILLION MAKES IT, IT MUST BE GOOD



HEAVY ORCHARD PRUNINGS... Cut-All Shredder starts to work on abnormally heavy prunings left by a hurricane. Prunings measured up to 6 inches in diameter.



HERE ARE THE RESULTS... the ground covered with short, fine, fluffy shavings. Shredder has made two trips over the right half of the row.

Clip and mail to Brillion Iron Works, Inc., Dept. RS-25-12, Brillion, Wisconsin.

Send me complete information on the Brillion Cut-All Shredders.

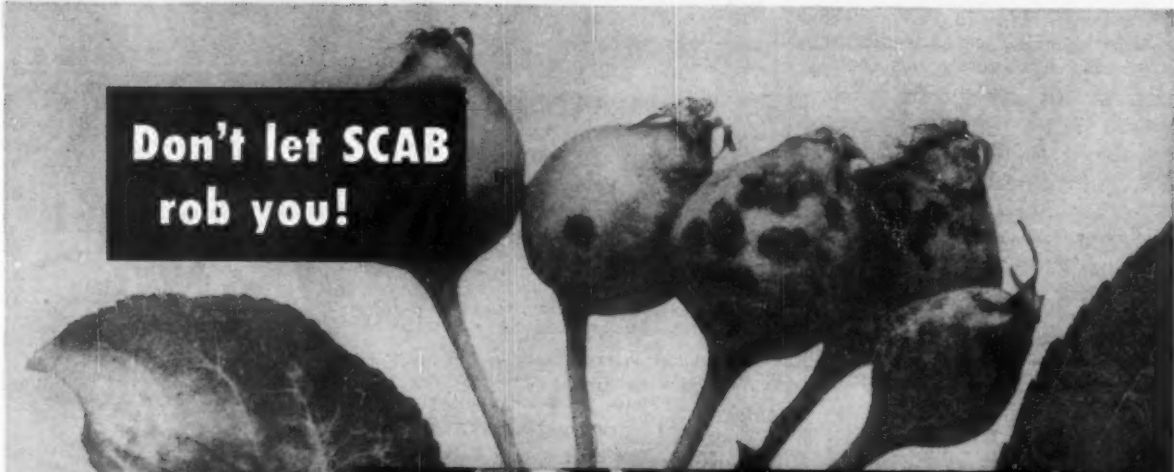
Name.....

Route or Street Number.....


Town..... State.....



Glyodin



Don't let SCAB
rob you!

A black and white photograph showing several pieces of fruit, likely apples or pears, heavily infested with dark, irregular spots characteristic of scab disease. The fruit is shown with leaves, and the background is a plain, light color.

Get clean fruit
with
CRAG Glyodin

A black and white photograph showing a hand holding several clean, healthy-looking apples. The apples are free of any visible spots or damage. The background is a plain, light color.

CRAG IS A REGISTERED TRADE-MARK OF
UNION CARBIDE AND CARBON CORPORATION

No other scab spray gives you so many profitable advantages at such low cost...

You can quickly see why CRAG Glyodin is so popular as a scab spray among so many leading fruit growers. It costs only 75¢ per 100 gallons of early spray and 54¢ per 100 gallons of cover spray. At this low cost, you get many money-making advantages:

- 1 Controls Apple Scab:** In early sprays and cover sprays, low-cost CRAG Glyodin is powerful protection against apple scab and also makes a perfect combination with the mercuries for "back-action" eradication of scab.
- 2 Controls Other Diseases:** CRAG Glyodin controls summer diseases such as sooty blotch, bitter rot, Brooks spot, fly speck, and black rot. Also controls leaf spot on sour cherries and brown rot of peaches interplanted with apples.
- 3 Saves Mite Sprays:** CRAG Glyodin suppresses red mite build-up, frequently saving the cost of special mite sprays. Growers also report suppression of two-spotted mite by Glyodin in cover sprays.
- 4 Covers and Sticks:** No stickers or spreaders are needed with CRAG Glyodin. It covers foliage and fruit with uniform protection that *stays on* through rainy periods.
- 5 Easy to Use:** CRAG Glyodin is a liquid that dissolves quickly even in cold water. It saves loading time, never clogs spray nozzles, leaves no sediment in the tank.
- 6 Fine Color and Finish:** CRAG Glyodin leaves no undesirable residue to reduce leaf efficiency or discolor fruit. It can be used up to day of harvest to prevent pinpoint scab in storage.
- 7 Increases Effectiveness of some Insecticides:** Some commonly used insecticides may tend to be more effective with Glyodin than in combination with other commonly used fungicides.

Plan now to get the high efficiency and great economy of CRAG Glyodin. See your supplier . . . or write for full information.

CARBIDE AND CARBON CHEMICALS COMPANY

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30 East 42nd Street **UCC** New York 17, New York





ROCKET LOPPERS CUT COSTS

ROCKET loppers—America's finest—let you work faster with less fatigue, save you time and money.

That's because they're perfectly balanced and light in weight. Tubular steel handles and cushion grips soak up arm shock, avoid blisters. Heat-treated cutlery steel blade clips off limbs clean, quick.

Chrome-plated shafts are extra strong, won't break or set. Perforated grips won't slip when wet or in gloved hand.

See all three models at your hardware or garden supply store. No. A105 (above) for general use but specifically for citrus trees. No. A103 for heavy-duty orchard work. No. A101, a new, smaller lopper. Perfect for vineyards. Shock-absorbing rubber bumper. True Temper Corp., Cleveland 15, Ohio.

TRUE TEMPER.



Finest quality in Shears • Garden, lawn and farm tools • Shovels • Hammers, axes, hatchets • Fishing tackle • Golf-club shafts

WINDFALLS

It is said that Isaac Newton while sitting under an apple tree was struck on the head by a falling apple. Thus he conceived the great truth of his Law of Gravitation.



By HENRY BAILEY STEVENS

Across the Divide

SOME of the big differences that strike a New Englander coming into the Far West are: 1) the complete dependence of the crops upon irrigation; 2) the fewer number of sprays necessary in the dry climate; 3) the enormous concentration of volume in individual units and regions; 4) the greater amount of co-operation in commodity organization; and 5) the increased tempo of highway driving.

Where Do You Get Pickers?

THEY were giving the bunk-houses a fresh coat of paint when I visited my friend's orchard overlooking Lake Chelan in the state of Washington. The Delicious showed a tinge of color. It was time to ready up for the harvest.

"Where do you get your pickers?" I asked. Houses were few among the miles of orchards all around.

"All sorts of places. The backbone of the crew are regulars—people who come back year after year, who like to pick apples and do well at it. They make good pay and are surer of their money than the guy who runs the orchard. A lot of them are migrants."

There are long stretches of railroad track in Wenatchee; and when apples are ripe, it seems that many passengers roll in by freight—without benefit of ticket.

"They come as birds come north—at the appointed time and to the same place. They have their little jungle—a spot under the bridge, where they can build a fire and boil a pot of coffee. We go there with a truck early in the morning. 'Come on, fellers, why not have a real breakfast?' They know us, and we remember a number of them.

"Some of them play it cagey and want to spell out the details. We tell them the whole story: the price we will pay per box, the bonus if they stick through the picking season, the charge for their meals, the rules and the limits on 'recreation.' But most important of all is the assurance: 'You know, fellers, Gene is counting on you to pick those apples.' A regular always rises to the occasion at this point: 'I know. I promised Gene last fall I'd come back, and here I am.'

"They pile into the truck, and we're off for Chelan.

"We do our best to keep absolute faith with them. Clara gives them good meals and all they want to eat, plenty of seconds. It takes a day or two usually to feed them up to the point where they're good for much. They think the world of Clara. You know from one year to the next some of those fellers maybe don't get a chance to talk to a respectable woman. If any new man starts to be fresh, they take care of him.

"Basil overheard two of them at the end of the season figuring up their assets for the winter: one had \$100, the other \$104. It was agreed that the former could take care of food and lodging for the months ahead; the more prosperous one would stock the wine.

"We drive them down to Wenatchee Saturday afternoons. They can shop, go to a movie, or do what they like. Some of them get drunk, but they understand they can't bring the stuff back with them. A few of them don't come back. One of them follows the practice of leaving an extra \$20 with the liquor store to pay his fine if he gets into jail."

Address your "Windfalls" contributions to Henry Bailey Stevens, AMERICAN FRUIT GROWER, Willoughby, Ohio.

AMERICAN FRUIT GROWER

DWARF TREES

(Continued from page 8)

to 200 acres of apples, pears and cherries at the home farm, they have a 150-acre planting of apples at a nearby hill location where the rows are over a half-mile long.

This entire planting of permanent trees was on M II with very dwarfing M IX trees used as fillers in a part of the planting. The standard planting distance was $25\frac{1}{2} \times 25\frac{1}{2}$, calling for 67 trees to the acre. The uniform size of trees and the evident ease of spraying and harvesting in this 10-year-old block are impressive.

Growing conditions in England vary from those in the United States and Canada. The average yearly rainfall of about 26 inches is evenly distributed over the 12 months, and there is less trouble from extreme drought periods during the growing season.

There are approximately 35 less growing days, much fewer hours of bright sunlight, but above all, English growers have no worries over possible sub-zero temperatures in November which we experience all too frequently before the leaves are all off.

Says Dr. A. P. Preston, of the East Malling Station, "Naturally vigorous varieties should go on the semi-dwarfing rootstocks, while moderately thrifty varieties will do best on the more vigorous stocks."

An example of this idea was a block of 36-year old trees of Bramley (one of the most vigorous English varieties) which had been topworked on M VII. These trees were not as large as 20-year-old Grimes in the United States. It seems to me that we would profit by further testing of each of our apple varieties on the M and MM rootstocks under our varied climatic conditions. THE END.

EAST MALLING REPORT

THE 1955 Annual Report of the East Malling Research Station, at Kent, England, has just been published and is available to growers in the United States for \$2.00 plus overseas postage.

More than half of the 162-page journal contains research papers and bulletins for growers on a wide range of subjects, including fruit thinning, virus-free fruit tree and strawberry production, cover crops and soil moisture, and insect and disease control. The full text of the Amos Memorial Lecture on fruit nutrition by Prof. T. Wallace is a special feature.

For a copy, write to the Secretary, East Malling Research Station, Maidstone, Kent, England.

DECEMBER, 1956

"... since I bought a CARDOX AQUA-JET SPRAYER my apple and peach crop is the cleanest and best I've ever had."

L. S. Vetter - Owner . . . L. S. Vetter Orchards

CARDOX AQUA-JET SPRAYER

The Sprayer That Owners Endorse

L. S. VETTER ORCHARDS
Harrisonburg, Virginia

CARDOX CORPORATION . . . Chicago, Illinois

Gentlemen:

I have been in the orchard business 25 years and since I bought a Cardox Aqua-Jet Sprayer my apple and peach crop is the cleanest and best I ever had. I have been told I have the best apples and peaches in the Valley of Virginia, from Winchester to Harrisonburg.

The Cardox Aqua-Jet Sprayer has saved me in spray material and labor and given perfect performance. The Aqua-Jet heads give me the type of spray it takes to have a clean and healthy crop.

In my opinion it is superior to any sprayer on the market or any that I have previously used or owned. Because it is simple in design and operation, with fewer parts to replace, maintenance cost is low. I highly recommend the Cardox Aqua-Jet Sprayer to all orchard owners.

Yours very truly,
L. S. Vetter
Owner
L. S. VETTER ORCHARDS

Praise like this, coming from a man who knows and has owned other sprayers, can only be earned on the job — right in the orchard! And it is typical of what many other owners of Cardox Aqua-Jet Sprayers have testified about Cardox performance and superior results.

Before you buy any sprayer, decide that you want the best performance and economy you've ever known. See your Cardox Dealer now — and be in tip-top shape for better crops and lower costs next season!



AQUA-JET HEADS

Impinging jet heads, plus blower fan, put the spray where you want it, in the pattern you want, with least waste.

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☐ Please send me name and address of nearest Cardox Dealer

Name _____

☒ Send me descriptive literature on Cardox Aqua-Jet Sprayers

Street or RFD No. _____

City _____ State _____

MODERN TRESMOTT EQUIPMENT

Like the one horse shay and the Model T the "chain sizer" and "hand dumper" have been replaced with modern Trescott equipment.

Save Space.
Eliminate Bruising.
Increase speed
by replacing your
old chain sizer with a

RAPID SIZER

Pace Your Fruit Line.
Save Labor and Bruises
with the fast gentle

AUTO DUMP

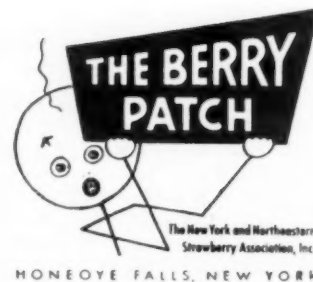
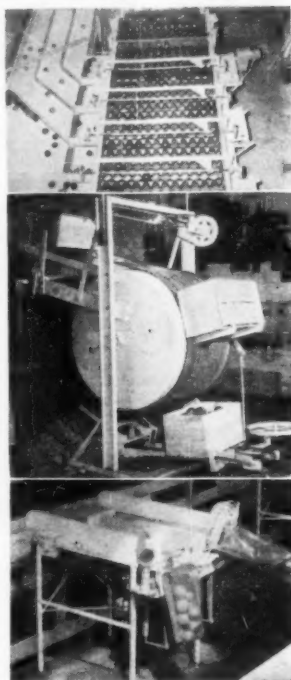
Trescott developed the
Tilting Chute for Potatoes.
For bagging apples use the
level Autobagger and slow
fall apple head

BRUISELESS AUTOBAGGER

Dependable Bag Closers, Vacuum Bag
Lifters, Takeaway Belts and Master Con-
tainer Packers.

Write for full information.

The TRESMOTT CO., INC.
Dept. A FAIRPORT, NEW YORK



WE are not many months from the 1957 nursery catalog, and about now we get the irresistible urge to look ahead and plan for the next planting of strawberries. How much attention should we give to the new set of terms which will dwell on freedom from virus and nematodes in the planting stock we are planning to buy. How is such "freedom" determined?

It will be safe and wise to adopt the attitude that any strawberry plants not produced from virus-free stock are not worthy of space in your new setting. This might knock out a favorite of yours, but most of the standard varieties are now obtainable, virus-free to a dependable degree.

Do not be coaxed into thinking that strawberry plants *stay* virus-free indefinitely. They do not—and the continuous production of even substantially virus-free strawberry plants, year after year, is not the accomplishment of the energetic amateur. It takes all the skill and scientific training of the professional plantman to bat anywhere near 1000!

Nematode Control Difficult

A more difficult checkpoint will be the nematode situation. Unfortunately, nematodes leave tracks visible only to the trained eye and their control is easier said than done. It is important for you to know what nematode control your plantman is practicing. If he has no program to offer, you are justified in considering a source of planting stock where such a program is vigorously carried out.

And do not be persuaded that your own land perhaps is already infested with nematodes, so why worry about nematodes in the plants. Two wrongs do not make a right. You have the right to go out for the best planting stock, since nematode control in nursery beds is now being widely practiced.

At present, your knowledge of the ethics of your plantman will be your best guide in evaluating the claims on freedom from virus and nematodes.—Robin Wyld.



COMPARE Irrigation PUMPS!

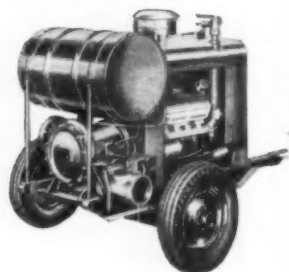
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PRUNING BLUEBERRY PLANTS
These photos show an unpruned blueberry plant (above) and the same plant after pruning. Pruning of established blueberry plants consists mainly of removing bushy, thin wood.



PRUNING GRAPES

HASTE can make waste in grape pruning, warns Dr. Nelson Shaulis, Cornell grape specialist, if the thermometer drops low enough to cause winter injury to the vines.

Three years' experiments in New York indicate that fall-pruned grapes may suffer from winter injury if temperatures drop to 18° below zero, he said. Injury can be even more severe on tender varieties such as Delaware and Duchess.

In milder winters, with a minimum of 10 below zero, there was no difference in cold hardiness between spring-pruned and fall-pruned vines.

"There is something to be gained in waiting to start pruning until after the first hard freeze," he said. "This makes cane selection easier because immature canes will be frozen and withered."

DECEMBER, 1956

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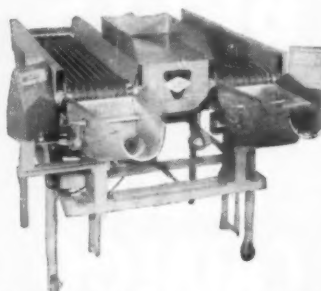
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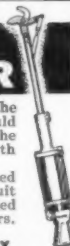
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Photos courtesy Bakelite Company



This photo was taken inside the plastic greenhouse at Kentucky. Lettuce, beans, tomatoes, eggplant, peppers, beets, cabbage, and 10 varieties of flowers were grown successfully all year round. Tomatoes planted last spring yielded about one-half pound more per plant than those planted in glass houses. Water for the plants is well-conserved by the polyethylene film, and the house is ventilated by vents in side walls. Propane or butane heaters were used to heat the greenhouse.

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WANTS MAGGOT TRAPS

Where can I obtain the McPhail maggot traps mentioned in your August Question Box?—California.

The McPhail maggot traps are manufactured by the Kimble Glass Works, Vineland, N. J. They are not a standard production, however, and are obtainable only on special order. The Entomology Branch, USDA, Agricultural Research Service, Beltsville, Md., can furnish specifications for anyone who has need for a sufficient number to justify making up an order.

FERTILIZER VALUE OF APPLE POMACE

Can the residue from apple cider factories be used for fertilizer?—Pennsylvania.

Apple pomace does not have a high fertilizer value. Its greatest benefit would be as a soil conditioner because of the high fiber content. The excess acidity could be corrected by the addition of lime.

PREVENT FREEZING IN SPRAY TANK

What can I use in my wooden spray tank to prevent the water from freezing during winter storage?—Connecticut.

Calcium chloride at the rate of 160 pounds to 100 gallons of water is recommended by the John Bean Co. in order to protect down to -1° F., or 192 pounds to protect to -14° F., or 230 pounds to protect to -32° F.

ACEROLA CHERRY

I have read about the Acerola cherry of Puerto Rico which has a high vitamin C content. Can you tell me whether any nursery in the U.S. has this cherry for sale?—Iowa.

The name "Acerola" is used in Puerto Rico but in the U. S. this cherry is known as Barbados. The best source is Newcomb Nursery, Route 2, Box 519, Homestead, Fla. Mr. Newcomb has both a sweet and tart variety.

THOMPSON #5 GRAPE

I have a Thompson No. 5 grape that looks much like a Concord and ripens at about the same time. I'd like to know where and when it originated and its parentage. —Pennsylvania.

The Thompson No. 5 is an old variety that originated about 1885 among a group of seedlings started by Joseph T. Thompson, of Oneida, N. Y. It is a seedling of Worden, and the fruit is somewhat of the same type.

MANGO INTEREST

We grow a considerable quantity of mangos and I would appreciate any information which you might have concerning mangos and possibly the name and address of someone to whom we might write in India. —Florida.

We are sending our reader an item on mangos from *The Indian Journal of Horticulture*, Volume 11, No. 3, September, 1954, by R. H. Singh, Government Horticultural Research Station, Saharanpur, U.P., India. Another informed person on mangos you may wish to write is Dr. S. Krishnamurthi, Head, Department of Agriculture, Annamalai University, Annamalainagar, Chidambaram, South India.

MUSCADINE GRAPE CULTURE

I should like specific instructions on culture of Muscadine grape vines (Bronze Scuppernon). —Georgia.

A copy of a bulletin by the Georgia Experiment Station, Athens, Ga., entitled "The Muscadine Grape Vineyard," is being sent our reader.

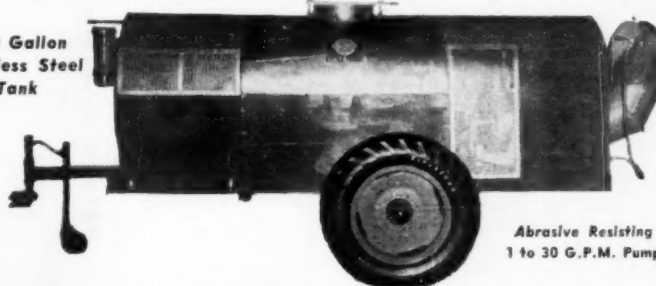
DECEMBER, 1956

THE PROOF IS IN THE USE

A New York State Apple Grower Reports

I picked almost 20,000 Bu. of apples this year that graded out 92% EXTRA FANCY with LESS than 2% culls. The "Buffalo Turbine 200 Gal. Streamliner" has cut my spraying time over half and I am only using $\frac{1}{2}$ the water I used before.

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Tank



Abrasive Resisting
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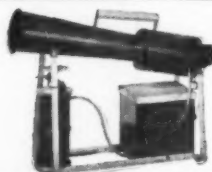
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Ten years ago the rooms of the apple storage at Pennsylvania State University were treated with Cuprinol wood preservative, and there has been no mildew since. No whitewashing or painting has been required either. Widely used by fruit growers, Cuprinol is nontoxic and won't harm fruit. Application can be by brush, spray, or dip, and it can be painted over easily. Write F. D. Houghton, Cellu-san Division, 8 Wood St., Simsbury, Conn.

'57 Power Giants



The new Dodge trucks have the eye appeal of the new model cars. Besides the pick-up shown above, others are offered with 3725- and 4875-pound payload capacities. The new line includes two types of motor—the 204 h.p. Power-Dome or

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the 120 h.p. economy six. Power steering, power brakes, and push-button driving controls with 3-speed automatic transmissions are available on all truck models. Write W. L. Kessinger, Dodge Motor Truck Co., 2751 E. Jefferson, Detroit 7, Mich.

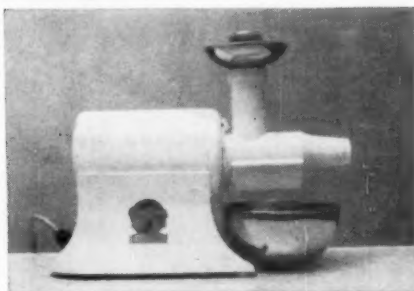
New—Better—Faster



Last week I used a new chain saw which did about twice the work of our old saw. Easier to use, it has positive power which means there is no slippage. Low in price, it uses about half the gas of any saw I've ever used, and is much lighter and better balanced. Write Dave Hoff, Hoffco, Inc., 416 No. 8th St., Richmond, Ind., for full details.

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DECEMBER, 1956



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PACIFIC NEWS

OREGON

Garoian Goes to Wisconsin

Leon Garoian, Clackamas County agent specializing in horticulture, has resigned and will go to the University of Wisconsin as state extension specialist in fruits and vegetables.

Leon, or Lee as he is generally called, helped develop the Five Ton Strawberry Club. He served as secretary of the Oregon-Washington Strawberry Council from its inception.

The Oregon-Washington Strawberry Council during its fall meeting re-elected Marvin VanCleave, Salem strawberry grower, president. Ronald Burnett, Portland, was elected vice-president; Don Rasmussen, Salem, secretary; and Harold Bushue, Gresham, treasurer.

The council, sponsor of the Five Ton Club, discussed possibility of a program to finance expanding and accelerated research on strawberry production. It was decided to explore the matter further with the raw products committee of the Northwest Canners and Freezers Association to determine what phases of research should have priority.

The Nut Story

It may pay to leave walnuts in their shells this year, Glenn Hansberry, manager of the Salem Nut Growers Co-operative, told his membership this fall. Most growers, he stated, will realize a better return without half the work if they sell in the shell.

A lot of walnut meats were supplied last year—more than were used. Consequently the price dropped. In the Willamette Valley the drop was approximately 33%.

Walnut harvest in the Willamette Valley was very light this year due to last winter's unfavorable weather.

The filbert crop was also light, but the price to the grower is much better this year than in 1955.

New Blackberry

A promising new blackberry variety, now known as No. 928, is being readied for release by Oregon State College Experiment Station. Developed by George Waldo, USDA horticulturist, the new variety is a cross between the Chehalis and the Olallie blackberry varieties. Plants will be available to commercial growers in 1957.

The berry is said to be fine in flavor, firmness, and good color. In frozen pack quality tests, it has rated higher than the Boysen blackberry. It also rates high in pie baking tests and holds promise for use in ice cream.

Yield tests have shown that up to 7 tons per acre can be obtained, thus far out-producing other Oregon blackberry varieties.

—Harold and Lillie Larsen.

WASHINGTON

"Twin" Award

The "Conservation Farmer of the Year" in the Wenatchee-Entiat Soil Conservation district this year is "twins." Harold and Gary Aasen, twin brothers who operate an orchard in Entiat, have been honored as top conservationists.

The Aasens are newcomers to the fruit industry, having purchased their 10-acre



ALAMAR PEACH

A variety discovered and introduced by Allen Martin at Winters, California. A beautiful large, yellow fleshed variety, ripening about a week after Elberta. Flesh quite firm, delicious flavor, small seed, freezes and cans well, excellent for shipping. Trees are available for this season's planting. Write for quotations. Patent No. 930.

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orchard in 1950. It consists of 90% apples—largely in standard and Red Delicious—and 10% in cherries, peaches, and pears.

Their sprinkler irrigation system, installed in 1952, was SCS engineered, and although they have followed conservation practices on their farm buildings, the chief accomplishment and no doubt the one that earned them the award is their fine cover crop. They have established a cover that controls erosion, conserves plant nutrients, improves fertility, improves water penetration, and controls milkweed and ragweed.

By clipping and rotobating this cover, they are steadily building up residues in the soil.

The selection of top conservationist is sponsored by the Wenatchee Junior Chamber of Commerce.

Running a close second was Glenn Wells, of Cashmere, who has done an excellent conservation job on his 25-acre orchard.

Longer Life for Pears

Pears packed in polyethylene bags not only look good but their keeping qualities are prolonged six to eight weeks, reports O. B. Blair, general manager of the Peshastin Fruit Growers Association, largest pear packers in the area.

This is the third year that the Peshastin warehouse has packed pears in bags. The operation is a bit slower and costs an additional 8 cents each for the bags plus an additional half cent a box to the packer for the extra handling. More employees are needed, too, for bag packing but "It's reached a point where pears sold after January 1 almost have to be in bags to be accepted," Mr. Blair states.

Air is taken from the bags by use of a vacuum cleaner suspended from the ceiling. Not all the air is removed—experience has proved that this dries out the fruit. Just enough air is removed so that the bags won't break under the pressure of the box-lidding machine.

CALIFORNIA

New Orchards Planned

Holding an option on 470 acres of land at the confluence of the Feather and Bear Rivers, a new agricultural development organization, the Bear River Products Company, has been formed in Yuba County.

The company has plans for the development of peach, plum, prune, and walnut orchards.

Gabriel Alvarez, Tracy farmer, will direct agricultural operations. Officers are Ralph L. Jensen, Oakland, president and general manager; Gordon T. Stromer, Marysville, vice-president and director; Richard F. Desmond, Sacramento attorney, secretary.

Big Prune Crop

Total tonnage for the California 1956 prune crop, estimated at 180,000 tons by the State Reporting Service, is expected to exceed that figure, according to Elmer Berka, a director of the California Prune & Apricot Association.

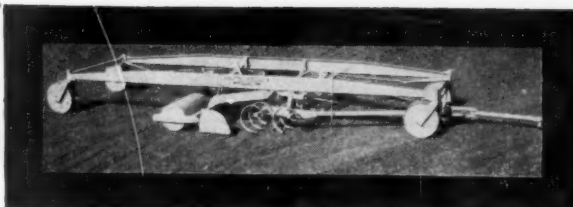
Prune growers in all districts noted that this year the prunes were smaller and lacked the sugar content to dry into good quality, said Mr. Berka.

Dryaway was another disappointing factor. In Sonoma County, where it was less than in some other districts, dryaway was 2.63 to one, with some lots drying more than three to one.

Cherry Pack

According to the Cannery League of California the 1956 pack of California sweet cherries was equivalent to 442,458 cases as compared with 515,601 cases last year.—Neale Leslie.

DECEMBER, 1956



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Willoughby, Ohio

STATE NEWS

(Continued from page 12)

"for leadership in advancing fruit growing and for outstanding contributions to the growth and welfare of horticulture and community organizations."

All officers of the horticultural society were re-elected during the meeting, as follows: Arthur Bassett, Jr., Baraboo, president; Dawson Hauser, Bayfield, vice president; H. L. Rahmlow, Madison, secretary; and E. L. Chambers, Madison, treasurer.—H. L. Rahmlow, Sec'y, Madison.

Camp to Retire; Reitz Appointed

FLORIDA—Dr. A. F. Camp, vice-director in charge of the Citrus Experiment Station at Lake Alfred for the past 20 years, plans to retire December 31. His successor will be Dr. Herman J. Reitz, present horticulturist with the citrus station.

Dr. Camp came to Florida in 1923 as assistant plant pathologist with the State



Photo by John Stuby

A PRUNING PROBLEM

Here's the way the Cortland apple tree on page 15 looked after pruning. All unnecessary branches were cleared out, using a saw on the larger branches and clippers on the smaller ones. A good job, we'd say. How did your "pencil pruning" compare?

Plant Board and Experiment Station. In 1927 he was made head of the experiment station's horticulture department. Since 1936, under his leadership, the station has developed into one of the most foremost citrus research institutions in the world.

Dr. Reitz is a graduate of Kansas State College, with advanced degrees from Ohio State University. He joined the citrus station staff in 1946. Beginning January 1 he will be horticulturist in charge of the station.—J. Francis Cooper, Extension Editor, Gainesville.

Winner!

ILLINOIS—The Roy Newman Orchard of Martinsville was judged the winner of the annual "95% Clean Apple Club" competition, scoring an almost perfect record with 99.66% clean fruit.

Leonard Flamm, 1st vice-president of the Southern Illinois Horticultural Society, passed away recently. Mr. Flamm was an earnest worker for improvement in the fruit industry.—Harold J. Hartley, Sec'y, Ill. State Hort. Society, Carbondale.

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RHEUMATISM

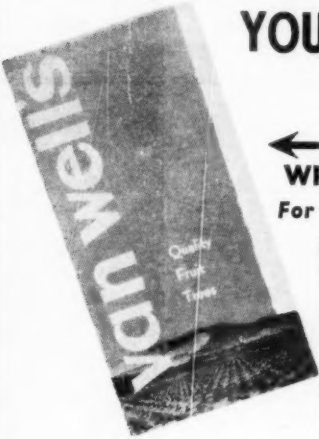
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DECEMBER, 1954

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VIRGINIA'S LARGEST GROWERS OF FRUIT TREES AND BERRY PLANTS. Also extensive line of Ornamental Plant Material.
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Leading varieties of **APPLE, PEACH, CHERRY, PLUM, GRAPE.** Guaranteed hardy, disease resistant. Free Catalog. 48 pages of money-saving offers, fruits, roses, shade trees, ornamentals, etc.—shown in natural color. Write today.

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WHITTEN NURSERIES, Box 105, Bridgman, Mich.

Organized Labor and the Fruit Industry

"IN time of peace, prepare for war" is perhaps an overworked slogan. Nevertheless, it carries with it the useful thought that one should never be lulled into a false sense of security.

This thought was never more in need of being heard than now. The fruit is harvested. The bottleneck of the fruit industry has been passed. And so we easily settle into a complacent rut and feel that all is right with our world.

But it isn't. Just remember back to the sporadic outbreaks of strikes during the critical harvest and packing seasons of the last few years. Think of the pineapple strike of a few years back that played havoc with that industry. Or think of the strike efforts at Traverse City, Michigan, during the cherry harvest of 1956 when farm families broke the strike with their own volunteer help. Sooner or later we are brought face to face with the fact that organized labor is an effective force that is here to stay.

We have got to learn to live with organized labor—sooner or later. It need not consume us. It can be dealt with intelligently and effectively. There are commercial firms which specialize in labor relations. The fruit industry on the West Coast has found it profitable to employ such firms to handle complicated problems. Perhaps this is the pattern which growers in other areas must copy. At all events, it depends on successful, large, organized grower groups and co-operatives to meet organized labor at the council table.

Now is the time to think these things through—not when the perishable fruit of a new harvest is flooding the packing shed or the processing plant.

Don't Forget the Variety

THE keystone of the fruit industry is still the variety. It is the Concord grape, the Montmorency cherry, the Washington navel orange, the Delicious apple, the Bartlett pear, the Elberta peach, and the other famous varieties upon which the industry is based.

To be sure, there are problems of nutrition and irrigation, of insect

and disease control, of mechanization, of handling and storage, and all the rest. Each one steps to the front from time to time to command attention. But in the final analysis the fact remains that none of these would be important if there were no varieties.

Fortunately there are plant breeders and nurserymen and devoted lovers of plants who are fascinated by the quest for something new and improved. The American Pomological Society, now in its 108th year, is working painstakingly to keep the variety in its proper and important place.

This is a word of encouragement and appreciation for their efforts.

Horticultural Societies

ONE of the important horticultural agencies in the United States is the horticultural society—national, state, region, county, and local. At just this time of year they take on new significance. Growers and associated interests gather together for one or more days to pool their knowledge and lay plans for the year ahead. Here is where ideas are born, crystallized, and put into action.

The men back of these organizations are the secretaries. They keep the records, they arrange the programs, they help shape policies. Sometimes, after 25 years of service, they receive a watch or a traveling bag or a silver service.

But no matter what, they keep on steadily building and doing, and the fruit industry is the beneficiary of their loyal and devoted services.

Fruit Growing is Such Fun!



Fruit Talk

Controlled atmosphere (CA) storage for apples is growing in the East. Especially suited for McIntosh, it's now proving excellent for Jonathan also.

The Kentucky State Horticultural Society celebrates its 100th anniversary this month.

A nematode that is beneficial to growers has been found by S. R. Dutky of the USDA. It acts like a microsyringe in introducing "blood poisoning" into the body cavities of many insects, resulting in their death.

The farm food marketing bill for Mr. and Mrs. USA is more than \$28 billion. Total profits of food marketing corporations are four times those of 1939, and labor costs have more than tripled.

History repeats itself. Writing in the Indianapolis Star 45 years ago (1911), A. D. Moffat, of Hartford City, Ind., deplored the shriveled and wrinkled fruit at the Purdue Fruit Exhibit in November due to a severe drought, saying, "It has convinced me that it will be impossible to raise fine apples without irrigating the entire crop during the entire crop making season."

Bailey and Gertsen of Massachusetts report that Epsom salts and dolomitic limestone are still the best materials for correcting magnesium deficiency in blueberries.

Shipped this fall from England to Kenya, Africa were 200 boxes of "extra-special selected" Cox apples—quite a reversal of the usual order of things, and indicating again how much smaller and interdependent the world has become.

Pleading eloquently for co-operation in the fruit industry, Cecil C. Clark, president of the Washington Canning Pear Association, says, "It may sound brave to say 'I can take it,' but who wants a tombstone over an untimely grave with an epitaph, 'Here lies John Doe, a rugged individualist, who starved to death.'"

A Northwest trade bulletin notes: "Cannery peach prices negotiated: the price of \$72 per ton for No. 1 and \$45 per ton for No. 2 plus hauling and services was established after negotiations of the directors of the Washington Freestone Peach Association and the processors. This beats last year's price by about \$17 per ton, and provides concrete evidence that negotiations based on realistic appraisals by both parties are possible and beneficial—beneficial to the grower, the processor, and the consumer."

According to C. L. Burkholder of Purdue University, the 1956 season was one in which peach varieties forgot their manners and proceeded to ripen when they pleased. For example, Jerseyland, Redhaven, Jubilee, Fairhaven, Halehaven, and Sullivan Early Elberta were being packed at the same time in the Dixie Company packing shed at Vincennes, Ind.
—H. B. T.

Coming Next Month

Seventh Annual Yearbook Issue
featuring

- Reviews and Forecasts for Tree Fruits, Small Fruits, Grapes, Nuts
- Fruit Varieties Introduced in 1956
- Fruit Blossom and Harvest Queens



Polyethylene cover is laid with tractor over strawberry plants. Small perforations provide drainage.



After film is laid, slits are cut with a razor, and the plants pulled through. Berries rarely touch the soil.



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Polyethylene mulch cover **brings a big return**

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CAPTAN 50-W is YOUR BEST CONTROL FOR...

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PEACH... Brown Rot, Scab, Rhizopus Rot.

CHERRY... Leaf Spot, Brown Rot.

STRAWBERRY... Botrytis Fruit Rot.

